

CURRICULUM VITAE

Prof. Dr. Kayed A. Abu-Safieh



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Personal

- **Name:** Kayed Abed Alfattah Zaben AbuSafieh
- **Date of birth:** July 19, 1959
- **Place of birth:** Al-Fawwar
- **Nationality:** Jordanian
- **Marital Status:** Married, four children
- **Rank** Professor

Education

- Ph. D. Organic Chemistry, 2000, University of Jordan.
 - ✓ **Thesis Title:** 3,4-Fused Azepino[5,4,3-*cd*] Indoles. Synthesis and Properties of Some Functionalized Pyrazolo[3',4':6,7]Azepino[5,4,3-*cd*] Indoles.
- M. Sc. Natural Products Chemistry, 1985, University of Jordan
 - ✓ **Thesis Title:** Chemical Constituents of Flora of Jordan (I): Alkaloids of *Leontice leontopetalum*
- B. Sc. Chemistry, 1982, University of Jordan.

Teaching Experience

- 2015- present, Professor, The Hashemite University
- 2015-2016: Professor, King Khalid University
- 2014-2015: Associate Professor, King Khalid University, Abha- KSA (Sabbatical Leave)
- 2011-2014: Associate Professor, Hashemite University, Zarqa-Jordan
- 2010-2011: Associate Professor, King Khalid University, Abha- KSA (Sabbatical Leave)
- 2008-2010: Associate Professor, Hashemite University, Zarqa-Jordan.
- 2001– 2008: Assistant Professor, Hashemite University, Zarqa-Jordan.
- 2000 – 2001: Lecturer, Hashemite University, Zarqa-Jordan.
- 1996 – 1998: Lecturer, Hashemite University, Zarqa-Jordan.
- 1991– 1996: Teaching Assistant, Yarmouk University, Irbid, Jordan.
- 1989– 1991: Teaching Assistant, King Saud University, Abha-KSA
- 1985– 1989: Secondary School Teacher, Jordan.

Administrative Experience:

- 2019/ 2020: **Acting President and Vice President**, The Hashemite University, Jordan
- 2019/ 2020: ***Vice Dean, Faculty of Science***, The Hashemite University, Jordan
- 2018 / 2019: **Vice Dean**, Faculty of Science, The Hashemite University, Jordan
- 2013 / 2014: **Chairman**, Chemistry Department, The Hashemite University, Jordan
- 2012/ 2013: **Chairman**, Chemistry Department, The Hashemite University, Jordan
- 2009/ 2010: **Vice Dean**, Faculty of Science, The Hashemite University, Jordan.
- 2008/2009: **Chairman**, Chemistry Department, The Hashemite University, Jordan.

Other Academic Activities;

1. Editorial Member, Jordan Journal of Chemistry, Ministry of Higher Education and Scientific Research, JORDAN (2017), <http://www.jjc.yu.edu.jo/index.html>
2. Editorial Member, Modern Chemistry, Science Publishing Group, USA (2013), <http://www.sciencepublishinggroup.com/j/mc>
3. Editorial Member, Journal of Chemistry, SCIREA (2017), <http://www.scirea.org/journal/Chemistry>
4. Reviewer, American Journal of Life Sciences, Science Publishing Group, USA (2013), <http://www.sciencepublishinggroup.com/journal/index?journalid=118>
5. Reviewer, Asian Transactions on Basic and Applied Sciences Journal, Asian Transactions, PAKISTAN (2015), <http://www.asian-transactions.org/ScopeATE.htm>

Areas of Research Interest:

1. Synthesis of Bioactive Heterocyclic Compounds.
2. Natural Products Chemistry

Courses Taught:

1. Undergraduate Courses:

- General Chemistry: 103101 & 103102
- General Chemistry Labs: 103103 & 103104
- Organic Chemistry (I): 110103231;
- Organic Chemistry (II): 110103232
- Organic Chemistry (III) 110103432
- Pharmaceutical Organic Chemistry 131703211
- Pharmaceutical Chemistry 131703323
- Essentials of Organic Chemistry: 110103236
- Essentials of Medicinal Organic Chemistry: 110103237
- Systematic Identification of Organic Compounds: 110103335
- Spectra of Organic Compounds: 110103331
- Special Topics:110103495
- Industrial Chemistry:110103461.
- Organic Chemistry Labs: 103235
- Chemistry of The Heterocyclic Compounds 1901031435

2. Graduate Courses:

- Chemistry of Heterocyclic Chemistry (103732)
- Research Methods (103793)
- Molecular Structure & Mechanisms of Organic Reactions (103731)

Publications

1. **K. Abu Safieh**, D. M. Al-Eisawi, M. H. Abu Zarga and S. S. Sabri, Chemical Constituents of the Flora of Jordan (II)- Alkaloids of *Leontice Leontopetalum.*, *J. of Natural Products*, **49**, 726 (1986). **DOI:10.1021/np50046a044** , [lnp50046a044](#)
2. **Kayed A. Abu Safieh**, Mustafa M. El-Abadelah, Salim S. Sabri, Musa H. Abu Zarga, Wolfgang Voelter and Cäcilia M.-Mössmer, Synthesis of Pyrazole-fused Azepino[5,4,3-cd]indoles, *J. Heterocyclic Chem.*, **38**, 623 (2001), **DOI:10.1002/jhet.5570390133**, [jhet.5570390133](#)
3. **Kayed A. Abu-Safieh**, Mustafa M. El-Abadelah, Salim S. Sabri, Wolfgang Voelter, Cäcilia M.-Mössmer and Markus Stroebele, Bischler-Naprielski Synthesis of Some New Pyrazole-Fused β -Carbolines, *Z. Naturforsch.*, **57b**, 1327 (2002), [s57b1327.pdf](#)
4. Basem A. Moosa, **Kayed A. Abu Safieh**, and Mustafa M. El-Abadelah, Synthesis of Some Thiophene-Fused Azepino[5,4,3-cd]indoles, *Heterocycles*, **57** (10), 1831 (2002), **DOI: 10.3987/COM-02-9551**
[abst/00773](#)
5. Peter Gmeiner, Harald Hübner, **Kayed A. Abu Safieh**, Ismail I. Fafous, Mustafa M. El-Abadelah, Salim S. Sabri, and Wolfgang Voelter, Synthesis and Dopamine Receptor Binding of Some Pyrazolo[3',4':6,7]-Azepino[5,4,3-cd]Indoles, *Heterocycles*, **60** (6), 1339 (2003), **DOI: 10.3987/COM-03-9734**, [abst/01044](#)
6. Ibrahim Izeddina, **Kayed Abu-Safieh**, Mikdad T. Ayoub, and Mohammad S. Mubarak, Synthesis and Characterization of Some New Pentadienoic Acid Derivatives, *J. Saudi Chem. Soc.*, **9**(1), 151 (2005)

7. Raid J. Abdel-Jalil, Monther Khanfar, **Kayed Abu-Safieh**, Samer Al-Gharabli, Mustafa El-Abadelah, and Wolfgang Voelter; An Efficient One-Pot Synthesis of Pyrazolopyrimidines, Intermediates for Potential Phosphodiesterase Inhibitors, *Monatshefte für Chemie*, **136**, 619 (2005).
DOI: 10.1007/s00706-004-0252-0, [s00706-004-0252-0](https://doi.org/10.1007/s00706-004-0252-0)
8. Musa I. El-Barghouthi, **Kayed A. Abu-Safieh**, Mikdad T. Al Arif and Mohammad S. Mubarak, Ring Substitutional Requirement for Biological Activity of 5-Aryl-3-Alkoxy-(2*E*,4*E*)-2,4-Pentadienoic Acids as New Growth Regulators. Theoretical Treatment, *J. Saudi Chem. Soc.*, **11**(2), 341 (2007).
9. **Kayed A. Abu Safieh**, Ahmad M. Abu Mahthieh, Mustafa M. El-Abadelah, Mikdad T. Ayoub, and Wolfgang Voelter, Synthesis of 5-Substituted 1,3-Dimethylpyrazolo[4,3-*e*]-[1,2,4]triazines, *Monatshefte für Chemie*, **138**, 157 (2007), **DOI:** 10.1007/s00706-006-0583-0, [s00706-006-0583-0](https://doi.org/10.1007/s00706-006-0583-0)
10. **Kayed A. Abu-Safieh**, Monther Khanfer, Rawhi Al-Far, Basem Fares Ali, C. Maichle-Moessmer and Ahmad Abu-Rayyan, 5-Hydrazino-1,3-dimethyl-4-nitro-1*H*-pyrazole, *Acta Cryst.*, **E63**, o3814(2007)
DOI: 10.1107/S1600536807039517, [S1600536807039517](https://doi.org/10.1107/S1600536807039517)
11. **Kayed A. Abu Safieh**, Fouad H. Darras, Mikdad T. Ayoub, Mustafa M. El-Abadelah, Salim S. Sabri and Wolfgang Voelter, Synthesis of 8-substituted 12-methyl-12*H*-Imidazo[4',5': 2, 3][1,4]diazepino[6,7,1-*jk*]carbazoles, *Heterocycles*, **71**(12), 2681 (2007), **DOI:** 10.3987/COM-07-11162, [abst/02477](https://doi.org/10.3987/COM-07-11162)
12. Monther A. Khanfar, **Kayed A. Abu-Safieh**, Rawhi Al-Far, Basem Fares Ali, C. Maichle-Moessmer, (E)-*N'*-[(Furan-2-yl)methylene]-2-hydroxy-

2,2-diphenylacetohydrazidemonohydrate, *Acta Cryst.*, **E63**, o4078(2007), DOI:10.1107/S1600536807044443, [S1600536807044443](#)

13. **Kayed A. Abu Safieh**, Basem A. Moosa, Mustafa M. El-Abadelah, Salim S. Sabri, and Wolfgang Voelter, Pictet-Spengler Synthesis of some Thiophene [c]-Fused β -Carbolines, *Monatshefte fur Chemie*, **139**,147 (2008) DOI: 10.1007/s00706-007-0763-6, [s00706-007-0763-6](#)
14. **Kayed A. Abu Safieh**, Ahmad M. S. Al-Titi, Jalal A. Zahra, and Mikdad T. Ayoub, Oxidative Cyclization of Arylidene Carboxyhydrazides: Synthesis of Substituted Hydroxydiphenylmethyl-1,3,4-oxadiazoles, *Jordan Journal of Chemistry*, **2**(3),211 (2007), [JJC15-5-007Mod11-11-2007.pdf](#)
15. **Kayed A. Abu-Safieh**, Monther A. Khanfar, Klaus Eichle and Basem FaresAli, 4-(4-Chlorophenyl)-1-(2-hydroxy-2,2-diphenylacetyl)-thiosemicarbazide, *Acta Cryst.*, **E64**, o2305 (2008), DOI: 10.1107/S1600536808035964, [hk2559](#)
16. E. Y. Qnais, **Kayed A. Abu-Safieh**, Mohammad H. Abu-Diehand Fouad A. Abdulla, Antinociceptive effect of two flavonoids from *Aloysia triphylla L.*, *Jordan Journal of Biological Sciences*, **2**(4), 167 (2009), [jjbs./Aloysia_triphylla.pdf](#)
17. Adnan S. Abu-Surrah, **Kayed A. Abu Safieh**, Iman M. Ahmad, Maher Y. Abdalla, Mikdad T. Ayoub, Abdussalam K. Qaroush, Ahmad M. Abu-Mahtheieh, New palladium(II) complexes bearing pyrazole-based Schiff base ligands: Synthesis, characterization and cytotoxicity, *European Journal of Medicinal Chemistry*, **45**, 471 (2010), DOI: 10.1016/j.ejmech.2009.10.029, [S0223523409005315](#)
18. **Kayed A. Abu Safieh**, Feda'a S. Al-Masri, Mikdad T. Ayoub MustafaM. El-Abadelah and Wolfgang Voelter, Synthesis of Some 1,3-Dimethyl-6-

substituted-1,4-dihydro-5*H*- Pyrazolo[3,4-*b*]Pyrazin-5-ones, *Zeitschrift fuer Naturforschung*, **66**, 1136 (2011), [66b1136.pdf](#)

19. Asma'a A. Al-Rifai, Mikdad T. Ayoub, Ashok K. Shakya, **Kayed A. Abu Safieh** and Mohammad S. Mubarak, Synthesis, characterization, and antimicrobial activity of some new coumarin derivatives, *Med. Chem. Res.*, **21**,468 (2012), DOI:10.1007/s00044-011-9553-0, [s00044-011-9553-0](#)
20. Bader A. Salameh, **Kayed A. Abu-Safieh**, Raed A. Al-Qawasmeh and Sanaa R. A. AL-Kaabenaha, Synthesis and characterization of new *N*-Phenylmaleimide Thioglycosides, *Research on Chemical* **4**, 3001 (2014), DOI: 10.1007/s11164-013-1146-8, [s11164-013-1146-8](#)
21. **Kayed A. Abu-Safieh**, Monther A. Khanfar, Musa I. El-Barghouthi and Basem F. Ali, Molecular Structure and Density Functional Theory Calculations of 3-(3-Nitrothien-2-yl)indole: Structural and Vibrational Analysis, *Journal of Chemical Crystallography*,**4**, 330 (2014), DOI [10.1007/s10870-014-0519-1](#)
22. **Kayed A. Abu Safieh**, Manal M.Al-Oqal, Mikdad T. Ayoub, and Muhannad I. Massadeh, Synthesis, Characterization and Antimicrobial Activity of Some 5-Aryl-(2*E*,4*E*)-Pentadienoic Acid Derivatives, *Journal of Chemical, Biological and Physical Sciences, Section A: Chemical Sciences*, **4** (3), 1927 (2014)
23. R. Z. Al Bakain, Y. S. Al-Degs, A. Issa, S. Abdul Jawad, **K. A. Abu Safieh** and M. A. Al-Ghouti, Activation of Kaolin with Minimum Solvent Consumption by Heating, *Clay Minerals*, **49**, 667 (2014), DOI: 10.1180/claymin.2014.049.5.04, [claymin49/5/667](#)
24. **Kayed A. Abu Safieh**, Yahya S. Al-Degs, Mahmoud S. Sunjuk, Abdulah I. Saleh, Mohammad A. Al-Ghouti, Selective Removal of

- Dibenzothiophene from Commercial Diesel Using Manganese Dioxide Modified Activated Carbon: A Kinetic Study, *Environmental Technology*, **36** (1), 98 (2014), DOI: [10.1080/09593330.2014.938125](https://doi.org/10.1080/09593330.2014.938125), [09593330.2014.938125](https://doi.org/10.1080/09593330.2014.938125)
25. **Kayed A. Abu Safieh**, Ala'a K. Hasan, Mikdad T. Ayoub and Mohammad S. Mubarak, Preparation of some alkenoic acid derivatives as new plant growth regulators, *Research on Chemical Intermediates*, **41**, 1863 (2015), DOI [10.1007/s11164-013-1315-9](https://doi.org/10.1007/s11164-013-1315-9)
[s11164-013-1315-9](https://doi.org/10.1007/s11164-013-1315-9)
26. Abdullah I. Saleh, **Kayed A. Abu-Safieh**, Bader A. Salameh, A Concise Route to 4-Aminomethylpyrazoles and 1,4-Aminomethylisoxazoles from Acetylacetone-derived Hexahydropyrimidines under Mild Conditions, *Chemical Papers*, **69** (5), 729 (2015), DOI: [10.1515/chempap-2015-0018](https://doi.org/10.1515/chempap-2015-0018)
27. **Kayed A. Abu Safieh**, Adnan S. Abu-Surrah, Hani D. Tabbā, Huda A. AlMasri, Randa M. Bawadi, Fadila M. Boudjelal and Lubna H. Tahtamouni, Novel palladium(II) and platinum(II) complexes with a fluoro piperazinyll based ligand exhibiting high cytotoxicity and anticancer activity in vitro, *Journal of Chemistry*, Volume 2016, Article ID7508724
<http://dx.doi.org/10.1155/2016/7508724>,
<http://www.hindawi.com/journals/jchem/2016/7508724>
28. Samir Bondock, Omeer Albormani, Ahmed M. Fouda and **Kayed A. Abu Safieh**, Progress in the chemistry of 5-acetylthiazoles, *Synthetic Communications*, **46**:13,1081(2016),
DOI:[10.1080/00397911.2016.1180700](https://doi.org/10.1080/00397911.2016.1180700),
<http://dx.doi.org/10.1080/00397911.2016.1180700>

29. Mahmoud Sunjuk, Adnan S. Abu–Surrah, **Kayed A. Abu Safieh**, Abdussalam K. Qaroush, and Feda'a M. Al-Qaisee, γ - Diimine palladium(II) based complexes mediated polymerization of methyl methacrylate, *Arabian Journal of Chemistry*, **10**, S1209 (2017), DOI: 10.1016/j.arabjc.2013.02.019, [S1878535213000658](https://doi.org/10.1016/j.arabjc.2013.02.019),
30. Ahmad S. Abushamleh,* Kayed A. Abu-Safieh,* Monther A. Khanfar, Khaleel I. Assaf, Bader A. Salameh, and Nisreen J. Alwahsh, Synthesis, Crystal Structure, Spectroscopic and Computational Studies of 2-{1-[2-(1,3-Dimethyl-4-nitro-1H-pyrazo-5-yl)hydrazono]ethyl}pyridine, *Heterocycles*, 98 (2), (2019), DOI: [10.3987/COM-18-14024](https://doi.org/10.3987/COM-18-14024)
31. Esam Qnais*, Yousra Bseiso, Mohammad Wedyan, **Kayed Abu-Safieh** and Hakam Alkhateeb, anti-nociceptive effect of methanol extract of roots of sarcopoterium spinosum in mice, *Pharmacologyonline*, **3**, 71 (2019)
32. Bader A. Salameh, Yahya S. Al-Degs, **Kayed A. Abu Safieh** and Amani W. AL-Zghool, Novel application of multivariate standard addition method based on net analyte signal for quantification of artificial sweeteners in complex food matrices, *Journal of Food Measurement and Characterization*, **14**, 78 (2020), DOI: [10.1007/s11694-019-00269-3](https://doi.org/10.1007/s11694-019-00269-3)
33. Bader A. Salameh, **Kayed A. Abu-Safieh***, Islam S. AL-Aqrabawi, Fatima Sobani and Lubna H. Tahtamouni, Regioselective synthesis and cytotoxic activity of Some new bipyrazole derivatives, *Heterocycles*, **100** (2), 283 (2020), DOI: [10.3987/COM-20-14222](https://doi.org/10.3987/COM-20-14222)

34. Younes, Eyad; Hussein, Nour; Shtaiwi, Majed ; Shahrokhi, Farshid; Abu Safieh, Kayed; Zhao, Yuming, N-(cyano(naphthalen-1-yl)methyl)-benzamides: synthesis, crystal structures, and colorimetric sensing for fluoride anion, *New J. Chem.*, **44**, 16546 (2020),
DOI: <https://doi.org/10.1039/D0NJ03105D>
<https://pubs.rsc.org/En/content/articlelanding/2020/nj/d0nj03105d>
35. Bader A. Saalemeh, Kayed A. Abu-Safieh, Eman H. Al-Hushki, Wamidh H-Talib, Israa A. A-ataby, Raed A. Al-Qawasmeh, New maleimide 1,2,3-triazole hybrids: design, synthesis, anticancer and antimicrobial activities, *Monatshefte für Chemie/Chemical Monthly*, **151** (10), 1609 (2020) <https://link.springer.com/article/10.1007/s00706-020-02685-4#article-info>
36. Ahmad S. Abushamleh,* **Kayed A. Abu-Safieh**,* Monther A. Khanfar, Lubna Tahtamouni, and Nisreen J. Alwahsh, Novel Palladium(II) Complexes of Pyrazole-Containing Schiff Base Ligands: Synthesis, Structural Characterization, and Cytotoxicity of the Palladium(II) Complexes of 2-{1-[2 (1,3-dimethyl-4-nitro-1H-pyrazol-5-yl)hydrazono]ethyl} pyridine (APHP) and its analogue 2-{1-[2-(1,3-dimethyl-4-nitro-1H-pyrazol-5-yl)hydrazono]methyl} pyridine (PCHP), *Journal of Structural Chemistry*, **62** (7), 1112 (2021),
DOI: <https://doi.org/10.1134/S0022476621070167>
37. **Kayed Abu-Safieh**^a, Musa I. El-Barghouthi^a, Monther A. Khanfar^b, Bader A. Salameh^a, Islam S. Al-Aqrabawi^a, Baker Jawabrah Al Hourani^c and Basem F. Ali^d,* Crystal structure of 1-(1,3-dimethyl-4-nitro-1H-pyrazol-5-yl)-3,5-diphenyl-1H-pyrazole, *Journal of Molecular Structure*, **1237**, 130345(2021),
Doi: <https://doi.org/10.1016/j.molstruc.2021.130345>

Conferences

1. International Conference of Chemistry and Biosciences (ICCB),
Scientific Committee Member, April 5-6, 2017, Al al-bayt University, Mafraq, JORDAN,
https://web2.aabu.edu.jo/faculties_site/index.jsp?site_no=100491
2. Jordan-European Union Higher Education Cooperation Day,
Monday, 21st January 2013, Organized by the National TEMPUS office – Jordan, <http://www.erasmus-plus.org.jo/>
3. ورشة عمل بعنوان تطوير العقاقير النانوية 10/10/2012 - المجلس الأعلى للعلوم والتكنولوجيا- الأردن
4. The Sixth Jordanian International Conference of Chemistry,
Scientific Committee Member, April 19-21, 2011, Yarmouk University, Irbid, JORDAN, <https://www.yu.edu.jo/jicc/>
5. 9th Jordanian Conference on Chemistry, **Chairman, 28 April 2009,**
Hashemite University, Zarqa, JORDAN,
<http://www.jcc.hu.edu.jo/Default.aspx>
6. 11th Ibn Sina International Conference of Pure and Applied Heterocyclic Chemistry, (13-16)/12/2008, Oral presentation (Synthesis and Characterization of Some 1,3-dimethyl-6-substituted-1,4-dihydro-5H- pyrazolo[3,4-b]pyrazin-5-ones)
7. Petra International Chemistry Conference (PICC) and Trans-mediterranean Colloquium on Heterocyclic Chemistry (TRAMECH-5), Petra, Jordan, (June 25-28, 2007), Oral presentation (Synthesis of 8-substituted-12-methyl-12H-imidazo[4',5':2,3][1,4]diazepino-[6,7,1-jk]carbazoles)

8. 10th Ibn Sina International Conference of Pure and Applied Heterocyclic Chemistry, (17-20) /2/2007, Oral presentation(**Synthesis of 5-Substituted 1,3-Dimethylpyrazolo[4,3-e][1,2,4]triazines**)
9. 9th Ibn Sina International Conference of Pure and Applied Heterocyclic Chemistry, **11-14/12/2004**, Poster (**Synthetic and Characterization of Some New Pentadienoic Acid Derivatives**).

Honors and Awards:

- Award from his majesty King Hussein for excellence in undergraduate program (B.Sc. in Chemistry), 1982 .
- Award from his majesty King Hussein for excellence in graduate program, 1985.
- Full Scholarship from Hashemite University to Pursue my Ph.D. in Chemistry (1997 – 2000)
- Research Fellowship form DFG-Germany, 2007

Membership in Scientific and Professional Societies:

- Member of the Jordanian Chemical Society.
- Member of the Jordanian Scientific Research Society.
- Member of Saudi Chemical Society.